

Product datasheet for **TP723446**

TIGAR (NM_020375) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human chromosome 12 open reading frame 5 (C12orf5).
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	ARFALTVVRH GETRFNKEKI IQQGVDPEL SETGFKQAAA AGIFLNNVKF THAFSSDLMR TKQTMHGILE RSKFCKDMTV KYDSRLRERK YGVVEGKALS ELRAMAKAAR EECPVFTPPG GETLDQVKMR GIDFFFLCQ LILKEADQKE QFSQGSPSNC LETSLAEIFP LGKNHSSKVN SDSGIPGLAA SVLVSHGAY MRSLFDYFLT DLKCSLPATL SRSELM SVTP NTGMSLFIIN FEEGREVKPT VQCICMNLQD HLNGLTETRG GGYGRKKRRQ RRR
Tag:	13-residue TAT
Predicted MW:	31.6 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μ M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Pretreatment with TIGAR-TAT for 4 hrs, using a concentration range 0.1-5.0 μ g/mL, protects U2OS cells from apoptosis induced by hydrogen peroxide.
Endotoxin:	Endotoxin level is < 0.1 ng/ μ g of protein (< 1 EU/ μ g)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_065108
Locus ID:	57103
UniProt ID:	Q9NQ88
RefSeq Size:	8237
Cytogenetics:	12p13.32
RefSeq ORF:	810
Synonyms:	C12orf5; FR2BP



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Summary:

This gene is regulated as part of the p53 tumor suppressor pathway and encodes a protein with sequence similarity to the bisphosphate domain of the glycolytic enzyme that degrades fructose-2,6-bisphosphate. The protein functions by blocking glycolysis and directing the pathway into the pentose phosphate shunt. Expression of this protein also protects cells from DNA damaging reactive oxygen species and provides some protection from DNA damage-induced apoptosis. The 12p13.32 region that includes this gene is paralogous to the 11q13.3 region. [provided by RefSeq, Jul 2008]